

## Special Issue

# Photonic Jet: Science and Application

### Message from the Guest Editors

Photonic jet is a subwavelength focusing effect arising from electromagnetic waves interaction with low-loss dielectric objects, including micro and nano spheres, fiber, cubes and even biological cells and spider silks. This special issue focuses on the recent advances on photonic jet developments, including both science and applications. Topics will include, but are not limited to:

- Label-free microscopy and imaging by photonic jet
- Sensing, trapping, manipulation and other applications of photonic jet
- Enhanced Raman scattering and photoluminescence by photonic jet
- High-index dielectric photonic jet lens
- Solid Immersion photonic jet lens
- Resonant and super-oscillation effects in photonic jet
- Metamaterial photonic jet
- Nonlinear photonic jet
- Integrated photonic jet devices
- Acoustic and Terahertz jet
- Photonic hook (curved photonic jet)

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### Guest Editors

Dr. Zengbo Wang

Prof. Dr. Boris Luk'yanchuk

Prof. Dr. Igor V. Minin

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### Deadline for manuscript submissions

closed (31 August 2021)



## Photonics

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## About the Journal

### Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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### Editor-in-Chief

Prof. Dr. Nelson Tansu

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